

200313825-1

10/769,355

IN THE CLAIMS:

Please amend the claims as follows:

1-6. (cancelled)

7. (currently amended) A light generation assembly, comprising:  
an integrated unit including an integral reflector and heat sink[[;]], and a lamp receiving opening defined in said integral reflector and heat sink;  
a lamp assembly replaceably coupled to said integrated unit ~~integral reflector and heat sink~~ and extending at least partially through said lamp receiving opening;  
a housing configured to contain said integrated unit and lamp assembly and to facilitate movement of said light generation assembly between an operating configuration and a lamp replacement configuration; and  
a fan assembly coupled to said housing, wherein said integrated unit is in a flow path of said fan assembly when in said operating configuration and at least partially out of said flow path of said fan assembly when in said lamp replacement configuration.

8. (original) The assembly of claim 7, wherein said integral reflector and heat sink comprises a plurality of cooling fins.

9. (original) The assembly of claim 7, wherein said integral reflector and heat sink comprises a metallic material.

10. (original) The assembly of claim 9, wherein said metallic material comprises zinc.

11. (original) The assembly of claim 9, wherein said metallic material comprises aluminum.

200313825-1

10/769,355

12. (currently amended) A light generation assembly, comprising:  
an integrated unit including an integral reflector and heat sink, and a lamp receiving  
opening defined in said integral reflector and heat sink;  
a lamp assembly replaceably coupled to said integrated unit and extending at least  
partially through said lamp receiving opening;  
a housing configured to facilitate movement of said integrated unit between an operating  
configuration and a lamp replacement configuration; and  
a fan assembly coupled to said housing;  
The assembly of claim 7, further comprising guide rods slidingly coupled to said housing through holes defined in said housing and coupled to said integrated unit ~~integral reflector and heat sink~~ for facilitating said movement between said operating configuration and said lamp replacement configuration, wherein said operating configuration comprises locating said integrated unit ~~integral reflector and heat sink~~ being within said housing and said lamp replacement configuration comprises locating said integrated unit ~~integral reflector and heat sink~~ at least partially outside of said housing.

13. (currently amended) A light generation assembly, comprising:  
an integrated unit including an integral reflector and heat sink, and a lamp receiving  
opening defined in said integral reflector and heat sink;  
a lamp assembly replaceably coupled to said integrated unit and extending at least  
partially through said lamp receiving opening;  
a housing configured to facilitate movement of said integrated unit between an operating  
configuration and a lamp replacement configuration; and  
a fan assembly coupled to said housing;  
The assembly of claim 7, further comprising guide rails coupled to said housing and ~~disposed between said integral reflector and heat sink and said fan assembly~~ for moving said fan assembly between an operating configuration wherein in which said fan assembly is substantially inline with said integrated unit ~~integral reflector and heat sink~~ and a lamp replacement configuration wherein in which said fan assembly is substantially offline with said integrated unit ~~integral reflector and heat sink~~.

200313825-1

10/769,355

14. (currently amended) A light generation assembly, comprising:  
an integrated unit including an integral reflector and heat sink, and a lamp receiving  
opening defined in said integral reflector and heat sink;  
a lamp assembly replaceably coupled to said integrated unit and extending at least  
partially through said lamp receiving opening;  
a housing configured to facilitate movement of said integrated unit between an operating  
configuration and a lamp replacement configuration; and  
a fan assembly coupled to said housing;  
The assembly of claim 7, further comprising guide rails coupling said fan assembly and  
said housing, and a linkage member coupling said ~~integrated unit~~ integral reflector and heat  
sink and said fan assembly such that, when said fan assembly is moved along said guide rails  
away from said housing, said integrated unit is exposed and rotated by said linkage member  
wherein said linkage member, and a slot defined in said housing for moving said light  
generation assembly from an operating configuration wherein said integral reflector and heat  
sink is adjacent said fan assembly and a lamp replacement configuration wherein said fan  
assembly is drawn away from said integral reflector and heat sink and said integral reflector  
and heat sink is rotated with respect to said housing.

15. (currently amended) A projector assembly, comprising:  
a light generation assembly having an integrated unit including an integral reflector and  
heat sink, a lamp receiving opening defined in said integral reflector and heat sink, a lamp  
assembly replaceably coupled to said integral reflector and heat sink and extending at least  
partially through said lamp receiving opening, and a housing for containing said integrated  
unit and lamp assembly mounting said light generation assembly and moving said light  
generation assembly between an operating configuration and a lamp replacement  
configuration; and  
a projection assembly optically coupled to said light generation assembly.

16. (currently amended) The assembly of claim 15, wherein said projection assembly  
comprises an liquid crystal display configured to receive light from said light generation  
assembly and generate an image for projection by said projection assembly.

200313825-1

10/769,355

17. (currently amended) The assembly of claim 15, wherein said projector assembly comprises a digital mirror device configured to receive light from said light generation assembly and generate an image for projection by said projection assembly.

18. (currently amended) A method of using a light generation assembly, comprising: placing said light generation assembly in an operating configuration in which a fan assembly coupled to a housing is placed near an integral reflector and heat sink contained in said housing;

selectively operating a lamp assembly which is replaceably coupled to said integral reflector and heat sink; ~~and~~

removing heat generated by said operating of said lamp assembly by flowing air over said integral reflector and heat sink with said fan assembly; and

when replacing said lamp assembly, sliding either said integral reflector and heat sink or said fan assembly with respect to said housing to provide access to said lamp assembly.

19-20. (cancelled)

21. (currently amended) A method of using a light generation assembly, comprising: placing said light generation assembly in an operating configuration in which a fan assembly is placed near an integral reflector and heat sink;

selectively operating a lamp assembly which is replaceably coupled to said integral reflector and heat sink;

removing heat generated by said operating of said lamp assembly by flowing air over said integral reflector and heat sink with said fan assembly;

replacing said lamp assembly by moving said light generation assembly to a lamp replacement configuration to facilitate access to said lamp assembly, removing said lamp assembly from said integral reflector and heat sink, coupling a new lamp assembly to said integral reflector and heat sink, and moving said lamp generation assembly to an operating configuration;

~~The method of claim 19,~~ wherein moving said light generation to a lamp replacement configuration comprises moving said fan assembly away from said integral reflector and heat

200313825-1

10/769,355

sink and wherein said moving said light generation assembly to an operating configuration comprises moving said fan assembly toward said integral reflector and heat sink.

22. (currently amended) The method of claim 21, wherein said lamp assembly, integral reflector and heat sink, and said housing are located on a common axis and ~~said fan assembly~~ and moving said fan assembly comprises moving said fan assembly substantially normally to said common axis

23. (original) The method of claim 21, wherein said lamp assembly, integral reflector and heat sink, and said housing are located on a common axis and moving said fan assembly comprises moving said fan assembly along said common axis.

24. (original) The method of claim 23, further comprising causing said integral reflector and heat sink to rotate with respect to said housing in response to moving said fan assembly.

25. (cancelled)

26. (currently amended) A method of forming a light generation assembly, comprising:  
forming an integral reflector and heat sink having a reflecting portion and a lamp  
receiving opening defined therein;  
coupling said integral reflector and heat sink to a housing;  
coupling a fan assembly to said housing; and  
replaceably coupling a lamp assembly to said integral reflector and heat sink extending at  
least partially through said lamp receiving opening;

~~The method of claim 25,~~ wherein coupling said integral reflector and heat sink to said housing comprises forming guide holes in said housing and coupling guide rods to said integral reflector and heat sink and to said guide rods whereby said displacement of said guide rods with respect to said guide holes causes said integral reflector and heat sink to be moved from an operating configuration within said housing to a lamp replacement configuration outside of said housing.

200313825-1

10/769,355

27. (currently amended) A method of forming a light generation assembly, comprising:  
forming an integral reflector and heat sink having a reflecting portion and a lamp  
receiving opening defined therein;  
coupling said integral reflector and heat sink to a housing;  
coupling a fan assembly to said housing; and  
replaceably coupling a lamp assembly to said integral reflector and heat sink extending at  
least partially through said lamp receiving opening;

~~The method of claim 25,~~ wherein coupling said fan assembly to said housing comprises coupling guides to said housing wherein is located said integral reflector and heat sink and moveably coupling said fan assembly to said guide rails so as to facilitate movement of said fan assembly from an operating configuration near said integral reflector and heat sink to a lamp replacement configuration at a second location away from said integral reflector and heat sink.

28. (original) The method of claim 27, further comprising locating said lamp assembly, integral reflector and heat sink, and said housing on a common axis so as to facilitate movement of said fan assembly substantially normal to said common axis between said operating configuration and said lamp replacement configuration.

29. (original) The method of claim 27, further comprising locating said lamp assembly, integral reflector and heat sink, and said housing on a common axis so as to facilitate movement of said fan assembly wherein said fan assembly is moved along said common axis between said operating configuration and said lamp replacement configuration.

30. (original) The method of claim 29, further comprising coupling a linkage member to said fan assembly and said integral reflector and heat sink through a slot in said housing whereby said integral reflector and heat sink rotated with respect to said housing in response to movement of said linkage member due to movement of said fan assembly.

31. (currently amended) ~~The method of claim 25~~ claim 27, further comprising forming cooling fins on said integral reflector and heat sink.

200313825-1

10/769,355

32-33. (cancelled)

34. (new) The light generation assembly of claim 14, further comprising a curved slot in said housing through which said linkage member is coupled to said integrated unit.

35. (new) The light generation assembly of claim 7, wherein said integrated unit is moved laterally out of said housing to place said light generation assembly in said lamp replacement configuration.

36. (new) The light generation assembly of claim 7, wherein said lamp assembly moves laterally with respect to said housing to place the light generation assembly in said lamp replacement configuration.

37. (new) The light generation assembly of claim 7, wherein said lamp assembly moves away from said housing along an optical axis of said light generation assembly, said movement of said lamp assembly exposing said integrated unit and rotating said integrated unit with respect to said housing to place the light generation assembly in said lamp replacement configuration.

38. (new) The method of claim 18, further comprising sliding said fan assembly laterally with respect to said housing to provide access to said lamp assembly.

39. (new) The method of claim 18, further comprising sliding said integral reflector and heat sink laterally out of said housing to provide access to said lamp assembly.

40. (new) The method of claim 18, further comprising sliding said fan assembly away from said housing and causing said integral reflector and heat sink to rotate with respect to said housing to provide access to said lamp assembly.